

HFD6GR1

6 MEGAPIXEL INDOOR/ OUTDOOR FISHEYE IR IP CAMERAS

- 1/1.8" 6 megapixel progressive scan imager
- 16x digital zoom
- Digital WDR
- 25 ft (8 m) IR distance, depending on scene reflectance
- Wide horizontal angle of view at 185°
- Built-in cybersecurity hardware chipset
- Excellent low-light performance down to 0 lux BW (with IR LEDs on)
- Up to triple stream support
- 6 megapixel resolution at 25/30 fps
- 1.7 mm, F2.0, fixed fisheye lens
- Global language support with 15 languages for all QIGs, Web GUI, and online help
- Rugged outdoor housing with IP67 ingress protection rating and IK10 impact resistance rating
- ONVIF profile S and G compliant
- Onboard camera storage up to 128 GB microSD card (not included)
- Image dewarping and embedded PTZ controls for full monitoring of entire 360° fisheye view



SYSTEM OVERVIEW

Honeywell is taking quality and reliability to the next level with the new equiP® line of fisheye IP cameras. The Honeywell outdoor TDN superior HD IR fisheye cameras offer incomparable picture clarity, an incredibly wide coverage area, hassle-free flexible system integration, and secure data transmission—and they install easily too!

ONBOARD VIDEO STORAGE

Supports up to 128 GB microSDHC (Class 10) card for local video storage when network is interrupted. Card not included.

MARKET OPPORTUNITIES

These fully featured attractive cameras are perfect for outdoor installations that require excellent picture quality at minimal bandwidth while offering maximum protection against dust, dirt, and water. Boasting a sleek modern design and offering the widest angle of view possible, the cameras are suited for a wide range of applications.

Supports up to 128 GB microSDHC (Class 10) card for local video storage when network is interrupted. Card not included.

Technical Specification

Superior Image Quality

- Full HD 6 megapixel 25/30 fps image with a 1/1.8" 6 megapixel sensor
- Digital WDR (DWDR) ensures glare-free images
- True Day/Night provides vivid color images by day and clear black-and-white images at night using a removable IR cut filter
- Image dewarping makes the fisheye output easy to view and scan for intruders
- Embedded PTZ control within the fisheye video allows users to control the part of the 360° view to focus on
- Excellent low-light performance with 3D noise reduction, saving storage and bandwidth together with H.265 Profile codec

Flexible Surveillance Solution

- 1.7 mm, F2.0, fixed fisheye lens
- H.265, H.264 and MJPEG codec, triple stream support
- IR LEDs provide up to 25 ft (8 m) of illumination in dimly lit or nighttime scenes (depending on scene reflectance)
- Smart IR technology provides even distribution of IR
- Waterproof (IP67) and IK10 impact-resistant camera housing
- -22°F to 140°F (-30°C to 60°C) working temperature
- ONVIF Profile S and G compliant
- Security features include individual signed certificates and data encryption
- Cameras can be retrofitted on many existing NVR installations without requiring additional storage

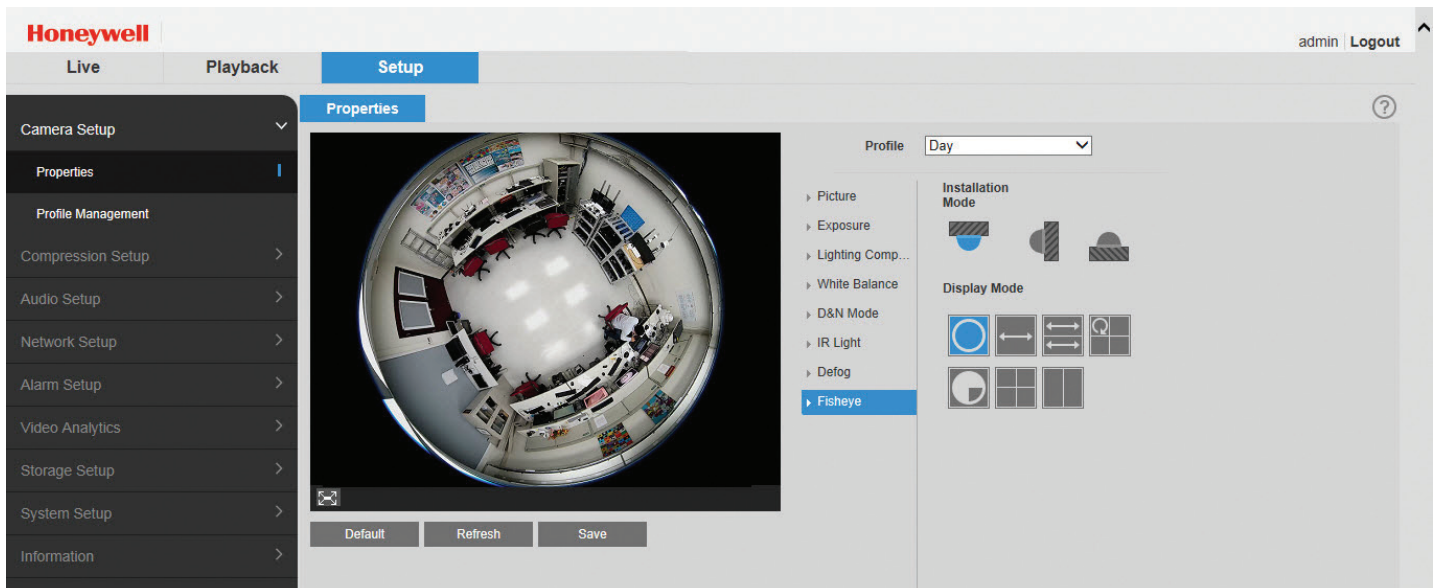
Easy to Install and Use

- Built-in PoE (Power over Ethernet) eliminates separate power supply and associated wiring; 12 V DC inputs where PoE power is unavailable
- Remote configuration through web client or from the NVR
- Included accessories: security screw driver, mounting screws, mounting template, mount adapter, IR led cover, and waterproof joint for network cable

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Features

The camera can be configured to automatically detect and respond to events such as motion in the scene, alarm inputs, network failure, and/or camera tampering. Automated responses include: sending a notification through email, FTP, and/or HTTP; sending a still image of the event through email and/or FTP; and recording a video clip of the event to a configured microSDHC card. Setup can be done through the web client.



Fisheye Display Options and Installation Modes



Ceiling Installation Mode



Wall Installation Mode



Floor Installation Mode



Original 360° Image Display Mode



Single Panorama Image Display Mode (360° view in a panoramic layout)



Double Panorama Image Display Mode (two 180° views in panoramic layouts)



Original 360° Image with Three EPTZ (virtual PTZ) Region Images Display Mode



Single Image Display Mode (displays a single view from within the 360° view)

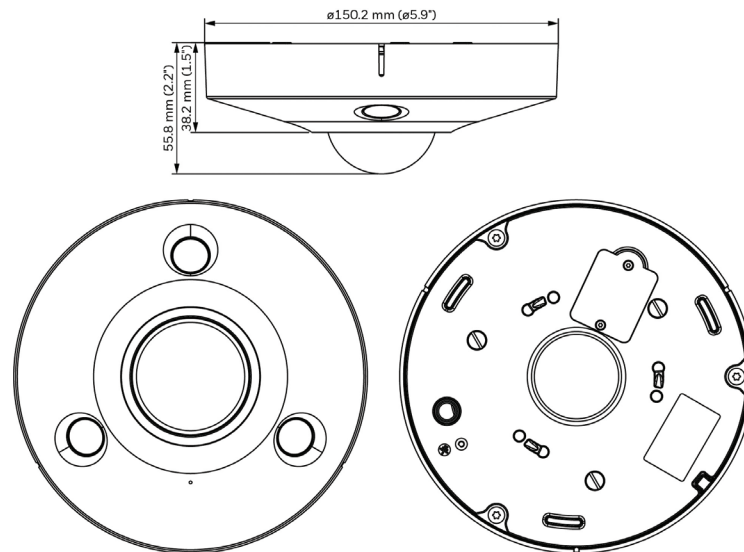


Four EPTZ Region Images Display Mode



Two Vertical Panorama Images Display Mode

Dimensions



Technical Specification			
OPERATIONAL		IP SPECIFICATIONS	
VIDEO STANDARD	NTSC/PAL	VIDEO COMPRESSION	
SCANNING SYSTEM	Progressive scan	H.265/H.264/MJPEG Bit rate control (CBR and VBR)	
IMAGE SENSOR	1/1.8" 6 MP progressive CMOS	RESOLUTION	4:3
NUMBER OF PIXELS (H×V)	3072 × 2048		3MP (2048×1536) / UXGA (1600×1200) / 1.3MP (1280×960)
MINIMUM ILLUMINATION	0.01 lux color/0 lux BW with IR LEDs on @ F2.0	FRAME RATE	OTHER
S/N RATIO	50 dB		6MP (3072×2048) / 4MP (2048×2048) / D1 (704×576/704×480) / CIF (352×288/352×240)
ELECTRONIC SHUTTER SPEED	Auto, Manual, 1/3(4)–1/100 000 s	FRAME RATE	MAIN STREAM
IR DISTANCE	Up to 25 ft (8 m), depending on scene reflectance		6MP (3072×2048) / 4MP (2048×2048) / 3MP (2048×1536) / UXGA (1600×1200) at up to 25/30 fps
DAY/NIGHT	Auto(ICR)/Color/BW		SUB STREAM
BACKLIGHT COMPENSATION	BLC/HLC/DWDR		D1/CIF up to 25/30 fps
WIDE DYNAMIC RANGE	Digital WDR (DWDR)		TRIPLE STREAM
WHITE BALANCE	Auto/Natural/Street Lamp/Outdoor/Customize Region	DEWARPING MODE	
GAIN CONTROL	Auto/Manual	Original, Panoramic, Double Panoramic, 1+3 EPTZ, 4 Pictures, 2 Pictures, Single	
NOISE REDUCTION	3DNR	AUDIO COMPRESSION	
PRIVACY MASKING	Up to 4 areas	G.711a/G.711Mu/AAC/G.726/MPEG2-Layer2/G.722.1/G.729	
CORRIDOR MODE	Yes	AUDIO STREAM	
FOCUS MODE	Manual	Full duplex, simplex	
LENS	1.7 mm, fixed fisheye lens, F2.0	SD CARD FUNCTION	
HORIZONTAL ANGLE OF VIEW	185°	Event trigger recording Continuous and scheduled recording Automatic recording when network fails	
AUDIO/TWO-WAY	Line In/Out, 1 built-in mic	SD CARD	
ALARM INPUT/OUTPUT	2/1	Up to 128 GB microSDHC card Class 10 (not included)	
ETHERNET	RJ-45 (10/100/1000Base-T)	IP SPECIFICATIONS (CONT'D)	
		PROTOCOLS*	
		IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, SSL, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, Bonjour, DNS, DDNS, IEEE 802.1X, QoS, NTP, IP Filter, Multicast, ONVIF	
		COMPATIBILITY	
		ONVIF Profile S/G	
		MAX. USER ACCESS	
		20 users	
		SUPPORTED WEB BROWSERS	
		Internet Explorer (11.0+), Firefox, Chrome	

Technical Specification

IP SPECIFICATIONS (CONT'D)		MECHANICAL	
SUPPORTED OS	Windows 7 32-bit/64-bit, Windows 10	DIMENSIONS	ø5.9 × 2.2 in. (ø150.2 × 55.8 mm)
SECURITY	Multiple user access levels with enhanced password policy, IP filtering, IEEE 802.1X, strong digest authentication for access permission, HTTPS, TLS1.2 SSH/Telnet closed, FTP disabled to reduce surface being hardware chipset	PRODUCT WEIGHT	1.1 lb (0.5 kg)
LANGUAGES SUPPORTED	English, Arabic, Czech, Dutch, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Turkish	CONSTRUCTION	Die-cast aluminum housing with powder coat
ELECTRICAL		CONSTRUCTION COLOR	RAL9003 (White)
POWER SUPPLY	PoE (802.3af) Class 0, 12 V DC	ENVIRONMENTAL	
POWER CONSUMPTION	10 W max. (IR LEDs on)	TEMPERATURE	–22°F to 140°F (–30°C to 60°C)
		RELATIVE HUMIDITY	Less than 95%, non-condensing
		INGRESS PROTECTION	IP67
		IMPACT RESISTANCE	IK10
		REGULATORY	
		EMISSIONS	EN 55032, FCC Part 15B AS/NZS CISPR 22:2009+ A1 (2010)
		IMMUNITY	EN50130-4
		SAFETY	EN5EN 60950-1, UL Listed to UL/CSA 60950-1,
		SAFETY	EN 50581

*Some development may be required in specific user cases to support some of these protocols in the field as they mature over time.

ORDERING

SYSTEM INTEGRATION

OPEN IP INTEGRATION	
ONVIF support and open API software integration. Refer to www.onvif.org for the ONVIF specification and the Honeywell Open Technology Alliance website (http://www.security.honeywell.com/hota/) to learn more about our open and integrated solutions.	

ACCESSORIES

HOUSINGS AND MOUNTS		
HFG-WK		Wall Mount Bracket
HFG-PK		Pendant Mount Bracket
HB4G-PM		Pole Mount Adapter
HB34G-CM		Corner Mount Adapter

HONEYWELL DEVICE INTEGRATION

MAXPRO® NVR FAMILY	Entry to Enterprise Level Network Video Recorders (version 4.0 and greater)
MAXPRO® VMS FAMILY	Entry to Enterprise Level Network Video VMS (version R410 and greater)
DVM	DVM R600.1 SP1
HUS	HUS 5.1

ORDERING

CAMERAS	
HFD6GR1	Network TDN Superior HD IR Rugged Fisheye Camera, 1/1.8" CMOS, 6 MP, 1.7 mm Fixed Fisheye Lens, 3 IR LEDs, PoE, H.265

NOTE:

Honeywell reserves the right, without notification, to make changes in product design or specifications.

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